

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

## PATENT APPLICATION

ATTORNEY DOCKET NO. 10019196-1

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Lung Tran et al.

Confirmation No.: 1295

Application No.: 09/963,933

Examiner: J. Mondt

Filing Date: 9/25/01

Group Art Unit: 2826

Title: MAGNETO-RESISTIVE DEVICE INCLUDING SOFT SYNTHETIC FERRIMAGNET  
REFERENCE LAYER

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

## TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- (X) Response/Amendment ( ) Petition to extend time to respond  
( ) New fee as calculated below ( ) Supplemental Declaration  
(X) No additional fee (Address envelope to "Box Non-Fee Amendments")  
( ) Other: \_\_\_\_\_ (fee \$ \_\_\_\_\_)

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS		MINUS		= 0	X \$18	\$ 0
INDEP. CLAIMS		MINUS		= 0	X \$84	\$ 0
1 FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$280	\$ 0
EXTENSION FEE	1ST MONTH \$110.00	2ND MONTH \$410.00	3RD MONTH \$930.00	4TH MONTH \$1450.00		\$ 0
OTHER FEES						\$
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

Charge \$ 0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. ~~A duplicate copy of this sheet is enclosed.~~

Respectfully submitted,

(X) hereby certify that this paper is being transmitted  
to the Patent and Trademark Office facsimile  
number 7031 872-9319 on 2/3/2003  
Number of pages: 9

Typed Name: Hugh P. Gortler

Signature: 

Lung Tran et al.

By 

Hugh P. Gortler

Attorney/Agent for Applicant(s)  
Reg. No. 33,890

Date: 2/3/2003

Please enter. Thank you.

PATENT  
PDNO 10019196-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Tran et al.

: Confirmation No. 1295

Serial No. 09/963,933  
Filed: September 25, 2001

: Examiner J. Mondt  
: Group Art Unit: 2826

For: MAGNETO-RESISTIVE DEVICE INCLUDING SOFT SYNTHETIC  
FERRIMAGNET REFERENCE LAYER

Box AF  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

**AMENDMENT**

Please replace claims 8 and 18 with the following.

8<sup>1</sup> 8. The device of claim 7, further comprising a third conductor in contact with the data layer, the third conductor being orthogonal to the first conductor.

18<sup>2</sup> 18. An information storage device comprising an array of memory cells, each memory cell including a data layer and a soft ferrimagnet reference layer, the data and reference layers having magnetizations that can be switched between first and second directions during write operations, only the reference layer being switchable between first and second directions during read operations.